USER MANUAL

GPS Tracker VERSION 1.02

I) Overview

This device is designed for protection of the vehicles with GSM network and GPS technology. User could control the car with it and track the location by himself. Further more, it can work with two modes: SMS and GPRS. With GPRS it's a small tracker working with sever center; with SMS it's a car alarm for driver.

II) Functions

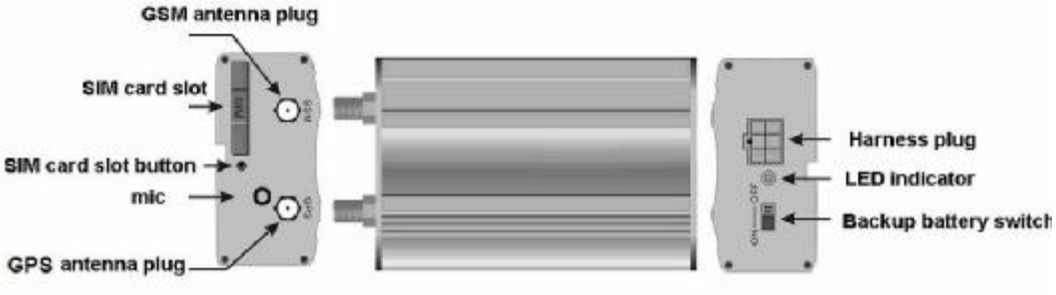
1) Alarm report to user's cell phone
2) Tracking position with Google map
3) Position auto-report
4) Vehicle's status report
5) Listening in
6) Anti-hijack
7) Anti-theft with door trigger and custom trigger
8) Cut-off engine by cell phone remotely
9) Working with one way or two way car alarm
10) Backup battery inside, power off alert
11) Over speed alert
12) Parking overtime alert
13) GSM/GPRS/SMS

III) Application

1) Taxis /buses management
2) Special vehicles and heavy trucks management system
3) Anti-theft security system for private vehicles
4) Asset management,
5) Rent car management
6) For teenagers driving

IV) Installation

1) Get to know parts and unit

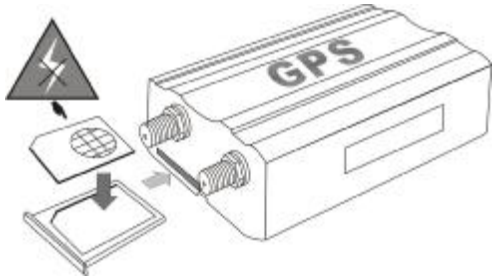


NO.	PHOTOES	NAME	NOTE
1		Main Unit	7.5cm*5.4cm*2.5cm
2		GPS Antenna	5 meters long
3		GSM Antenna	3 meters long
4		Harness	1 PC
4-1		Plug	6 PIN
4-2		Relay	12V
5		Manual	1

2) Quick Start Guide

Step 1 To install SIM card

Use a little stick to press the SIM card button and the frame will come out. Put the SIM card inside and the keep metal side upward.



Note: Please make sure that the SMS function is available for the SIM card. Please make sure that all power is off including the battery switch.

Step 2 Assemble the antennas

Note: Keep the GPS antenna has good condition to receive the signals. For example, put it outdoor or near the window.

Step 3 Power the unit with extra power or backup battery

User could see the LED indicator blinking. The red show GSM working, green shows GPS working. At first, the RED will blink every 1 to 2 seconds, which means it is searching the GSM network. After connected, it will blink every five seconds. If there ’s phone call, the red will be keeping lighting. If there ’s GPRS date translating, it will blink very fast. The green blinking means it got GPS signal.

Step 4 Set center phone number and locate.

For example, the SIM card number is 138001380000, user ’s cell phone number is 138001381234.

User could edit the short message

*H*1234*138001381234#

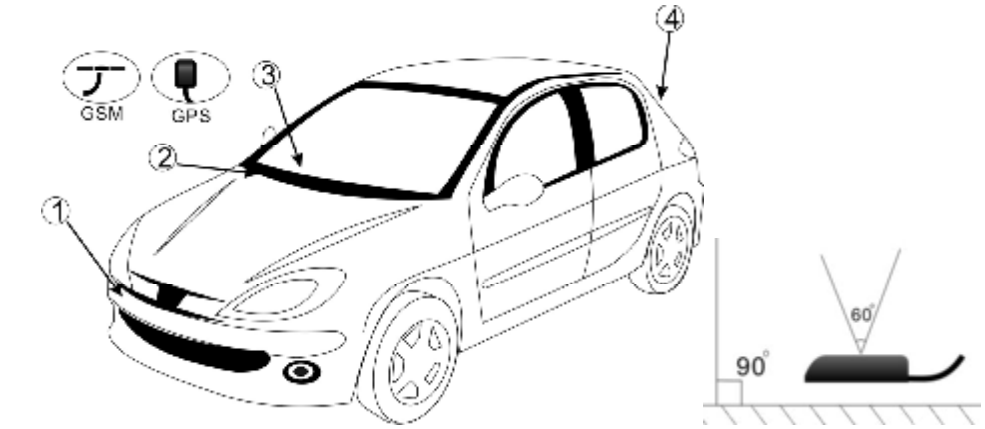
And send the message to the number 138001380000.User will get a feedback message: Center Phone No. 13800138000 Setup succeed.

Then user could send the short message: *W# to this number to get the location. After that, user could operate as the command list.

3) Where to install the device

User could place the main unit any anywhere you need, for example under the seat, in the trunk, or under the dash board. And the important thing is the two antennas.

Please see the picture:



GSM signal is fine usually, then you could put GSM antenna anywhere you like. But the GPS antenna need open to sky. So it is as we suggested place as above.

4) How to install to the vehicle, refer to the wiring diagram at the end of the manual.

V) Operation refers to the command list.

VI) Alarm report

User's cell phone will get the report from the tracker for some conditions, please have a look the sheet, and then you will have an idea of what happened.

Alarm report content list	
Alarm	Content
Custom alarm	22.4531,113.42457,Alarm activation1
Power alarm	22.4531,113.42457, Power Supply Disconnected.
Parking overtime	22.4531,113.42457, vehicle parking over time
Door open alert	22.4531,113.42457, Car Door Opened.
Over speed	22.4531,113.42457, Over peed alarm.
Towing alarm	22.4531,113.42457, Towing Alarm.
Emergency	22.4531,113.42457, Emergency help.

VII) GPRS settings

If you need use the GPRS function, you need the command to setup the device.

Function	Description	Command	Feedback
Set APN	APN	*APN:CMNET#	Set APN: CMNET OK
Set IP & Port	IP and port	*IP:xxx.xxx.xxx. xxx xxxx#	IP:, Port: OK. IP:, Port: Error
SMS Channel	To use SMS function	*GP:1#	AR:SMSOK. AR:GPFL
GPRS Channel	To use GPRS function	*GP:2#	AR:GPRSOK. AR:GPFL
Set DNSR	Website for sever	*DNSR:www.google.com#	Set Dnsr:www.google.comOK
Set user name and password	For GSM net work.	*UP:USER,PSD#	UserName: , Password: OK
TCP	When TCP is on, UDP will be off.	*GPRS*TCP#	TCP Network Ok
UDP	When UDP is on, TCP will be off.	*GPRS*UDP#	UDP Network Ok

Physical Specifications

Size:7.5*5.4*2.5CM

Wight: 0.16kg net, 0.6kg gross

Casting: Aluminum alloy

Working Voltage: 9V DC to 36V DC

Working: Average 110mA DC @12V

Sleeping<45mA DC@12V

Operating Temperature: -20 ° C to +60 ° C

Storage Temperature:-20 ° C to +60 ° C

Working Humidity: 5% to 95%

Communication & Inter face ports

2x input (-)

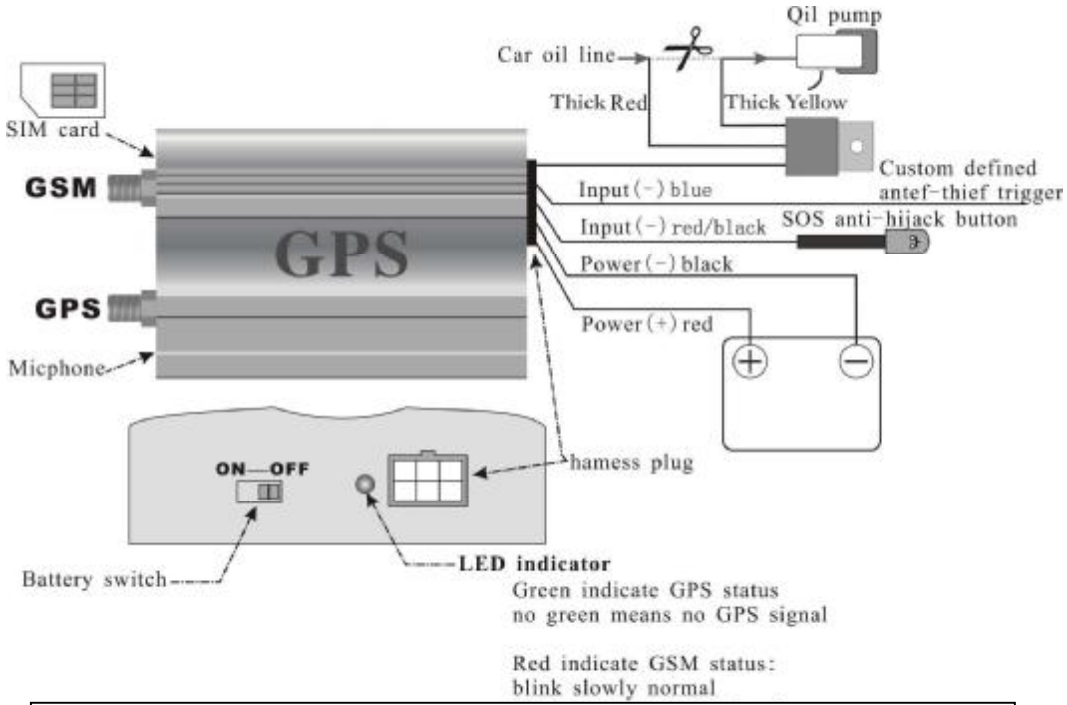
1x input (+) ACC

1x output (+) immobilizer

1x voice

SMS COMMAND LIST			
Function	**Description**	**Command**	**Succeed Feedback**
Setting	Set user's cell phone number as the center number	*H*1234*user cell phone number#	Center Phone No. 13800138000 Setup Succeed. Or Center-Password Set Error
	Change password (Default password is 1234)	*P*old*new#	Changed and New Password is xxxx. Password Error Password Length Set Error
	Set authority number 1,2,3	*Sp1*xxxxxxxx#	Authorized User No. x Setup Succeed
Listening in	Fixed phone is available. Dial the SIM card number use same function	*L*Password*13800138001#	No feedback and device will dial this number directly
GPS Locating	Authority or center cell phone send this message	*w#	Coordinates, Speed: 85.12Km/h User without authorization can't track
	Enable Location auto-report	*T#	Auto Track Enable
	Disable Location Auto-repot	*TD#	Auto Track Disable
	Set interval for auto-reporting location (seconds, the number should above 60)	*per*120#	Update new Location Info Every 120 Sec
Status	General Status	*Inf#	Power:12V,GPS:OK,ACC:Opened,GSM Signal: Strong. Can't get information
Cut off engine	Stop the engine	*Stop#	22.4531,113.42457,Stop Engine Succeed. Or Client Can't Stop Engine.
	Resume engine	*Re#	22.4531,113.42457,Resume Engine Succeed. Client Can't Resume Engine.
Set door alarm (Use SOS blue line)	Armed time set	*time*500#	System will be armed in xxx Sec after ACC off
	Alert time set	*Open*500#	System will be alarmed in xxx Sec after door opened
Over-speed alarm	Enable over speed alert, 080 means 80 km/h limitation, 0 means disable.	*Overspeed*80#	Over speed Alarm Set Succeed. Over speed Alarm Cancel Succeed. Over speed Alarm Length Set Error"
Towing alarm	Enable Towing ; when ACC closed, car moved ,report alarm	*TowE#	Open towing alarm
	Disable Towing alarm (Default)	*TowD#	Close towing alarm, default is close
Parking time alert	Parking overtime alert. 0 means disable	*Parking*100#	Vehicle parking overtime 100 Min. Vehicle parking time set error.
Alarm setting	Enable alarm	*Enable#	Alarm Enable Succeed!

	Disable alarm	*Disable#	Alarm Disable Succeed!
Default setting	Load default setting, clear all the numbers	*default#	Load default setting Succeed



Tips:

1) Immobilizer installation
Please find out the oil control line in the vehicle. And cut off this line and connect the relay as the wiring above. Please note the red line is close to the engine side and the black once close to oil pump side.
2) SMS Jammed
Sometime, too many short message will be jammed for SIM card. So if there's no feedback. User could call the SIM card number first to see if there's communication.
3) The high building and cloudy weather will affect the GPS signal.

GSM/GPRS/SMS Module

Dual band (900MHz,1800NHz)
850MHz,1900MHz optional
2 Watts EGSM(GSM 900 Class 4)
1Watt GSM 1800 (DCS1800 Class 1)
GPRS class 10
Audio Support with echo-Cancellation and noise reduction)

GPS Module

Chip: SRF Star III GSC3f/LP-7979
Frequency:L1 1575.42MHz, C/A code
Channels:20
Update rate: 1Hz
Sensitivity
Tracking -159dBm
Cold start -144dBm
Acquisition Time
Hot start (Open Sky)<1s
Hot start (Indoor)< 15s
Cold Start (Open Sky)< 35s
Position Accuracy
Autonomous< 10m
SBAS < 5m
Max. Altitude< 60,000 ft
Max. Velocity< 1,000 knots

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LOCOSYS